

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/005513

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01R33/3873

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, IBM-TDB, COMPENDEX, INSPEC, BIOSIS, EMBASE, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 154 280 A (MARCONI MEDICAL SYTEMS FINLAND) 14 November 2001 (2001-11-14) column 2, line 52 -column 4, line 44 figures 1,2	1,2,7, 10,11
Y	US 2002/021129 A1 (AKSEL BULENT ET AL) 21 February 2002 (2002-02-21) paragraph '0037! figure 3A	1,2,7, 10,11
Y	EP 0 921 408 A (ESAOTE SPA) 9 June 1999 (1999-06-09) paragraph '0063! figures 15,16	9,12
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- "P" document published prior to the international filing date but later than the priority date claimed

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Date of the actual completion of the international search

30 August 2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	US 4 672 346 A (HAYASHI HIROO ET AL) 9 June 1987 (1987-06-09) column 8, line 33-46 figure 11	7,9,11, 12
A	column 9, line 10-27 figures 13,14	1-6,8,10
A	GB 2 319 339 A (MARCONI GEC LTD) 20 May 1998 (1998-05-20) page 2, line 10 -page 3, line 12 figures 3,4	1-12
A	EP 0 619 499 A (OXFORD MAGNET TECH) 12 October 1994 (1994-10-12) column 4, line 33 -column 5, line 35 figures 2-4	1-12
A	US 5 134 374 A (BRENNEMAN BRUCE C ET AL) 28 July 1992 (1992-07-28) column 6, line 13 -column 8, line 34 figures 3,4,6-9	1-12
A	US 2002/056185 A1 (BENZ MARK GILBERT ET AL) 16 May 2002 (2002-05-16) paragraph '0018! - paragraph '0022! figure 1	1-12
A	EP 0 927 889 A (GEN ELECTRIC) 7 July 1999 (1999-07-07) paragraph '0017! figure 10	1-12
A	PATENT ABSTRACTS OF JAPAN vol. 016, no. 140 (C-0926), 8 April 1992 (1992-04-08) & JP 03 297445 A (TOSHIBA CORP), 27 December 1991 (1991-12-27) abstract	1-12

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Information on patent family members

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Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

This invention relates to a static magnetic field generating device in a MRI equipment, comprising an additional shimming ring on the external edge of the first shimming ring whereby the distance between the first shimming ring and the additional shimming ring is adjustable in the direction parallel to the static magnetic field such as to improve the field homogeneity of the static magnetic field; a permanent magnetic source composed of a plurality of permanent magnetic columns with different magnetic energy levels wherein the magnetic energy levels of the external columns are higher than the magnetic energy levels of the columns which are located closer to the center of the respective pole; a plurality of magnetic inducing bolts or permanent magnetic bolts; the second shimming ring, the permanent magnetic source and the magnetic inducing bolts or permanent magnetic bolts could be applied jointly.